

ABSTRACT

The present invention provides a method of hybridization, differential methylation hybridization (DMH) for high throughput methylation analysis of multiple CpG island loci. 5 DMH utilizes nucleic acid probes prepared from a cell sample to screen numerous CpG dinucleotide rich fragments affixed on a screening array. Positive hybridization signals indicate the presence of methylated sites. Methods of preparing the hybridization probes and screening array are also provided.